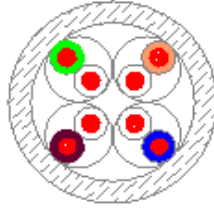


## CAT5E UTP PE Duct Grade Black Technical Data Sheet



Temperature Range
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0-50°C
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<u>Conductor:</u>	Solid bare copper 24AWG
<u>Diameter:</u>	0.50(±0.02)mm
<u>Insulation:</u>	HDPE (High Density Polyethylene)
<u>Thickness:</u>	0.22mm
<u>Diameter:</u>	0.9(±0.05)mm
<u>Pairs:</u>	Pair1: Blue, White/Blue Pair2: Orange, White/Orange Pair3: Green, White/Green Pair4: Brown, White/Brown
<u>Outer Sheath:</u>	Black LDPE (Low Density Polyethylene) for outdoor use
<u>Thickness:</u>	0.5mm
<u>Diameter:</u>	5.0mm
<u>Electrical Properties:</u>	DC resistance conductor < 93.8 Ω/km DC loop resistance <190 Ω/km Mutual capacitance <56 nF/km Capacitance unbalance < 1600 pF/km DC insulation resistance >5000 MΩ/km Mean Characteristics impedance 100 ± 15 Ω
<u>Standards:</u>	In accordance with TIA/EIA 568C.2 and ISO/IEC 11801

Freq. (MHz)	Max. Att. (dB/100m)	Max. Dop (nS/100m)	Min. NEXT (dB)	Min. PS NEXT (dB)	Min. ELFEXT (dB/100m)	Min. PS ELFEXT (dB/100m)	Min. RL (dB)
1	2.04	570	65.3	62.3	63.8	60.8	20
4	4.05	552	56.27	53.27	51.76	48.76	23
8	5.77	546.7	51.75	48.75	45.74	42.74	24.5
10	6.47	545.4	50.3	47.3	43.8	40.8	25
16	8.25	543	47.24	44.24	39.72	36.72	25
20	9.27	542.1	45.78	42.78	37.78	34.78	25
31.25	11.72	540.4	42.88	39.88	33.9	30.9	23.6
62.5	16.99	538.6	38.36	35.36	27.88	24.88	21.5
100	21.98	537.6	35.3	32.3	23.8	20.8	20.1

Freq. (MHz)	Max. Att. (dB/100m)	Max. Dop (nS/100m)	Min. NEXT (dB)	Min. PS NEXT (dB)	Min. ELFEXT (dB/100m)	Min. PS ELFEXT (dB/100m)	Min. RL (dB)
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